

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	807	257/184.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	SAME	ON	2006/09/13 10:27
S2	1	nigaki-minoru.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	SAME	ON	2006/09/13 09:14
S3	206	NAKAJIMA KAZUTOSHI.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	SAME	ON	2006/09/13 09:15
S4	0	("2005/0051784").URPN.	USPAT	SAME	ON	2006/09/13 09:25
S5	9	("5336902").URPN.	USPAT	SAME	ON	2006/09/13 09:32
S6	99	ishihara hisahiro.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	SAME	ON	2006/09/13 09:58
S7	804	257/459.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	SAME	ON	2006/09/13 10:08
S8	19	("4377723"   "5342453"   "5448080"   "5453135"   "5557117"   "5682046"   "5684308"   "5689122"   "5978401"   "6055262"   "6107151"   "6111276"   "6242794"   "6281561"   "6300557"   "6300650"   "6323480"   "6326649"   "6429463").PN.	US-PGPUB; USPAT; USOCR	SAME	ON	2006/09/13 10:30
S9	6	("4507674"   "4847210"   "5576221"   "5726440").PN. OR ("5994724"). URPN.	US-PGPUB; USPAT; USOCR	SAME	ON	2006/09/13 10:35
S10	18	("4636829"   "4745446"   "4771325"   "4782223"   "4829346").PN. OR ("5170228").URPN.	US-PGPUB; USPAT; USOCR	SAME	ON	2006/09/13 11:38
S11	4	sanada tatsuyuki.in.	US-PGPUB; USPAT; USOCR	SAME	ON	2006/09/13 11:38
S12	7	("5001080").URPN.	USPAT	SAME	ON	2006/09/13 11:39
S13	21	("4719498").URPN.	USPAT	SAME	ON	2006/09/13 11:39
S14	16	("5242839").URPN.	USPAT	SAME	ON	2006/09/13 11:41

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S15	22	("4789645"   "4955085"   "4996163"   "5034337"   "5051372"   "5066605"   "5066925"   "5075239"   "5077231"   "5162243"   "5166083"   "5213987"   "5223449"   "5242839"   "5256582"   "5262335"   "5300445"   "5324671"   "5324682"   "5388068"   "5445985"   "5455451").PN.	US-PGPUB; USPAT; USOCR	SAME	ON	2006/09/13 11:45
S16	41	(photodiode or photodetector or pin) and ((slope or ramp) (recess with substrate))	US-PGPUB; USPAT; USOCR	SAME	ON	2006/09/13 11:46
S17	7	("5001080").URPN.	USPAT	SAME	ON	2006/09/13 11:47
S18	2340	thin film transistor gate bottom	US-PGPUB; USPAT; USOCR; EPO; JPO	SAME	ON	2006/09/13 11:52
S19	253	S18 and (@ad<"19950101")	US-PGPUB; USPAT; USOCR; EPO; JPO	SAME	ON	2006/09/13 11:52
S20	7	("5001080").URPN.	USPAT	SAME	ON	2006/09/13 12:05
S21	5	("20030146441" "20030160292" "5101246" "6020620" "6690079").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	SAME	ON	2006/09/13 13:20
S22	7	("4438447"   "5665985").PN. OR ("6020620").URPN.	US-PGPUB; USPAT; USOCR	SAME	ON	2006/09/13 13:21
S23	5	("4486765"   "5552629"   "5689122"   "6020620").PN. OR ("6740861").URPN.	US-PGPUB; USPAT; USOCR	SAME	ON	2006/09/13 13:22
S24	13	("20030085412" "20030107108" "20040026713" "20040099888" "20050173712" "3737701" "4570174" "5021857" "5333141" "5569933" "6232141" "6255710" "6686616").PN.	US-PGPUB; USPAT; USOCR	SAME	ON	2006/09/13 13:22
S25	2	("5333141").URPN.	USPAT	SAME	ON	2006/09/13 13:23
S26	2	("4570174").URPN.	USPAT	SAME	ON	2006/09/13 13:24
S27	3	("20030010993" "20030155625" "5471076" "6359919" "6445020").PN.	USPAT	SAME	ON	2006/09/13 13:57
S28	773	257/431.ccls.	USPAT	SAME	ON	2006/09/13 13:57
S29	811	257/432.ccls.	USPAT	SAME	ON	2006/09/13 13:57
S30	597	257/433.ccls.	USPAT	SAME	ON	2006/09/13 13:57
S31	237	257/446.ccls.	USPAT	SAME	ON	2006/09/13 14:14
S32	390	257/466.ccls.	USPAT	SAME	ON	2006/09/13 14:16

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S33	445	257/618.ccls.	USPAT	SAME	ON	2006/09/13 13:58
S34	674	257/622.ccls.	USPAT	SAME	ON	2006/09/13 13:58
S35	782	(S28 or S29 or S30 or S31 or S32 or S33 or S34) and (trench or recess)	USPAT	SAME	ON	2006/09/13 14:16
S36	18	("3820237"   "3821775"   "3914786"   "4255688"   "4611884"   "4649415"   "4935665"   "4995695"   "5158091"   "5298768"   "5545893"   "5727009"   "5760885"   "6055102"   "6226082"   "6236477").PN.	US-PGPUB; USPAT; USOCR	SAME	ON	2006/09/13 14:48
S37	102	257/452.ccls.	US-PGPUB; USPAT; USOCR	SAME	ON	2006/09/13 14:48
S38	7	("5040039"   "5288656"   "5345075"   "5504355"   "5736756"   "5773848"   "5773859").PN.	US-PGPUB; USPAT; USOCR	SAME	ON	2006/09/13 14:52
S41	7346	hamamatsu photonics	US-PGPUB; USPAT; USOCR; EPO; JPO	SAME	ON	2006/09/13 16:54
S42	7325	"hamamatsu photonics"	US-PGPUB; USPAT; USOCR; EPO; JPO	SAME	ON	2006/09/13 16:54
S44	1412	S42 and (photodetector or photodiode or "light detecting")	US-PGPUB; USPAT; USOCR; EPO; JPO	SAME	ON	2006/09/13 16:54
S45	225	S44 and (trench or recess or groove or cavity)	US-PGPUB; USPAT; USOCR; EPO; JPO	SAME	ON	2006/09/13 16:58
S46	146	S45 and step	US-PGPUB; USPAT; USOCR; EPO; JPO	SAME	ON	2006/09/13 16:55
S47	79	S45 not S46	US-PGPUB; USPAT; USOCR; EPO; JPO	SAME	ON	2006/09/13 16:58
S48	232	438/59.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	SAME	ON	2006/09/13 17:16
S49	28	("5616185").URPN.	USPAT	SAME	ON	2006/09/13 17:12
S50	16	("5242839").URPN.	USPAT	SAME	ON	2006/09/14 08:01

## EAST Search History

S51	32	("3852802"   "4843444"   "4996163"   "4999692"   "5049522"   "5051372"   "5077231"   "5170228"   "5179429"   "5184106"   "5213987"   "5242839"   "5268315"   "5298453"   "5376229"   "5385864"   "5422501"   "5438952"   "5453727"   "5491461"   "5602411"   "5621227"   "5672551"   "5674778"   "5682046"   "5856209"   "5920773"   "5953617"   "6037646"   "6038928"   "6353317"   "6500692").PN.	US-PGPUB; USPAT; USOCR	SAME	ON	2006/09/14 08:01
S52	38	("4996163"   "5144379"   "5242839"   "5387796").PN. OR ("5621227"). URPN.	US-PGPUB; USPAT; USOCR	SAME	ON	2006/09/14 08:04
S53	229	257/e31.054.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	SAME	ON	2006/09/14 09:08
S54	119	S53 and (photodiode or photodetector)	US-PGPUB; USPAT; USOCR; EPO; JPO	SAME	ON	2006/09/14 09:08